

# MikroDiamant

Polycrystalline Diamond-Suspension for all lapping and polish operations



**flawless quality**

# Polycrystalline Diamond-Suspension

## With the multicut blades for all lapping and polish operations

### Properties:

For the production of our Diamond-Suspension we are using exclusively synthetic diamond grits of Du Pont de Nemours.

Compared to monocrystalline diamonds, the polycrystalline diamonds have no continuous planes. The grain endures a considerable amount of higher pressure load.

The precision calibration of the diamond powder generates easy-cutting, resistant grits in blocky grit form with many cuttings (multiple cuttings). This results in a high removal rate and the elimination of scratches.

MicroDiamond is water-soluble and in many organic solvents too. The cleaning is therefore unproblematic. The suspension can be trickled, pumped or sprayed off.

### Application:

MicroDiamond-Suspension is used for honing lapping and high-gloss polishing of different workingpieces such as steel, stainless steel, carbide, light metals, ceramic materials, steatite, gemstones etc.

### Examples:

- High-gloss polishing of plastic injection moulds, gauges, rollers, slip ring seals, diamond, artificial hip joints etc.
- Editing of wire drawing matrices, reversible carbide tips, ferrites, semi-conductor materials etc.
- Lapping of composite materials, optical glasses, measurement surfaces, moulding tools etc.
- Seating of valve seats, fittings, cylinder ducts, pistons, fine polishing of reamers etc.

## MicroDiamond-Suspensions are usable for following specifications:

Micrometer	Drip bottle	Application
0 - 0,25	50 ml 100ml 250ml	Superfinishing
½ - 1 ½	50 ml 100ml 250ml	Superfinishing
2 - 3	50 ml 100ml 250ml	Polishing
4 - 8	50 ml 100ml 250ml	Fine lapping
8 - 15	50 ml 100ml 250ml	Lapping
15 - 30	50 ml 100ml 250ml	Pre lapping
30 - 60	50 ml 100ml 250ml	Rough works

### Benefits:

- Fast material removal
- High-gloss polish
- High economic efficiency
- Unproblematic cleaning
- No edge waste
- Low viscosity
- Easy application



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